UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,903	02/05/2004	Kuester Joern	EUR 50877/USw	5357
	7590 02/05/201 NTERNATIONAL LL	EXAMINER		
LEGAL DEPARTMENT			COONEY, JOHN M	
10003 WOODLOCH FOREST DRIVE THE WOODLANDS, TX 77380		IVE	ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			02/05/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/772,903	JOERN ET AL.					
Office Action Summary	Examiner	Art Unit					
	John Cooney	1796					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 15 Oc	ctober 2009.						
	action is non-final.						
3) Since this application is in condition for allowar	/						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-4,9,11,18,19,22-24,26,28,30,31,33,	35 and 36 is/are pending in the a	pplication.					
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) 1-4,9,11,18,19,22-24,26,28,30,31,33,35 and 36 is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) acce	epted or b)□ objected to by the E	Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te					

Art Unit: 1796

Applicant's arguments filed 10-15-09 have been fully considered but they are not persuasive.

Upon closer consideration the following rejection is set forth and is not seen to be negated by an adequate showing of new or unexpected results attributable to differences in the claims that is commensurate in scope with the scope of the claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 9, 11, 18, 19, 22-24, 26, 28, 30, 31, 33, 35 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sieker et al.(6,403,665) in view of Bodnar et al.(5,143,945).{all references have been previously cited}.

Sieker et al. discloses preparations of rigid polyurethane or urethane-modified polyisocyanurate foams prepared by reacting isocyanates and isocyanate reactive materials, including polyester polyols in elevated amounts as claimed, at isocyanate indexes inclusive of those claimed, in the presence of blowing agents reading on those claimed, urethane catalysts, and functionalized carboxylic acids as claimed (see column

Art Unit: 1796

1 line 3 – column 7 line 63 and the examples, as well as, the entire document). The pKa in water values are values associated with the selection of the functionalized carboxylic acid and are not seen to be associated with difference in the claims in the patentable sense.

Sieker et al. differs from applicants' claims in that alkali metal salt trimerization catalysts as claimed are not particularly required and amounts of inclusion when chosen are not specified (see again column 5 lines 52-63). However, Bodnar et al. (see column 8 line 32 - column 9 line 36) discloses employment of these catalysts, including a preference for potassium 2-ethylhexanoate (column 9 lines 8-9), in polyurethane-polyisocyanurate foam systems for the purpose of ensuring the trimerization of excess isocyanate groups to isocyanurate linkages. Accordingly, it would have been obvious for one having ordinary skill in the art to have employed the trimerization catalysts of Bodnar et al. in the preparations of Sieker et al. in amounts as provided for by Bodnar et al. for the purpose of ensuring the trimerization of excess isocyanate groups to isocyanurate linkages during product formation in order to arrive at the products and processes of applicants' claims with the expectation of success in the absence of a showing of new or unexpected results.

As to differences in the overlaps of amounts of the involved materials of the instant concern, it has long been held that where the general conditions of the claims are disclosed in the prior art, discovering the optimal or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233; *In re Reese* 129 USPQ 402. Further, a prima facie case of obviousness has been held to exist where the proportions of a

reference are close enough to those of the claims to lead to an expectation of similar properties. *Titanium Metals v Banner* 227 USPQ 773. **(see also MPEP 2144.05 I)**Similarly, it has been held that discovering the optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272,205 USPQ 215 (CCPA 1980).

When looking to showings of results in order to overcome a rejection, the following must be considered:

Results Must be Unexpected:

Unexpected properties must be more significant than expected properties to rebut a prima facie case of obviousness. *In re Nolan* 193 USPQ 641 CCPA 1977.

Obviousness does not require absolute predictability. *In re Miegel* 159 USPQ 716.

Since unexpected results are by definition unpredictable, evidence presented in comparative showings must be clear and convincing. *In re Lohr* 137 USPQ 548.

In determining patentability, the weight of the actual evidence of unobviousness presented must be balanced against the weight of obviousness of record. *In re Chupp,* 2 USPQ 2d 1437; *In re Murch* 175 USPQ 89; *In re Beattie, 24* USPQ 2d 1040.

Claims Must be Commensurate With Showings:

Evidence of superiority must pertain to the full extent of the subject matter being claimed. *In re Ackerman,* 170 USPQ 340; *In re Chupp,* 2 USPQ 2d 1437; *In re Murch*

175 USPQ 89; *Ex Parte A,* 17 USPQ 2d 1719; accordingly, it has been held that to overcome a reasonable case of prima facie obviousness a given claim must be commensurate in scope with any showing of unexpected results. *In re Greenfield,* 197 USPQ 227. Further, a limited showing of criticality is insufficient to support a broadly claimed range. *In re Lemin,* 161 USPQ 288. See also *In re Kulling,* 14 USPQ 2d 1056.

Result Must Compare to Closest Prior Art:

Where a definite comparative standard may be used, the comparison must relate to the prior art embodiment relied upon and not other prior art – *Blanchard v. Ooms*, 68 USPQ 314 – and must be with a disclosure identical (not similar) with that of said embodiment: *In re Tatincloux*, 108 USPQ 125.

Applicants' have not persuasively demonstrated unexpected results for the combinations of their claims. Comparisons have not been made with the prior art embodiment relied upon. Applicants have not demonstrated their results to be unexpected and more than mere optimizations of the knowledge in the art or more significant than being secondary in nature. Applicants' have not demonstrated their showing to be commensurate in scope with the scope of combinations now claimed.

Applicant's arguments with respect to claims 1-4, 9, 11, 18, 19, 22-24, 26, 28, 30, 31, 33, 35 and 36 have been considered but are moot in view of the new ground(s) of rejection.

Application/Control Number: 10/772,903 Page 6

Art Unit: 1796

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John

Cooney whose telephone number is 571-272-1070. The examiner can normally be reached on M-F from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck, can be

reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-

8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval

(PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see

http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

/John Cooney/

Primary Examiner, Art Unit 1796